

Design Process



Project Team

Howard County Department of Public Works
Utility Design Division

Don Lieu, Chief

Kin Siew and Wes Daub, Project Managers

Patton Harris Rust
& Associates, Inc.

Contracts 1 & 2

George, Miles
& Buhr, LLC

Contracts 3, 4 & 5

Whitman Requardt
& Associates, LLP

Contracts 6, 7 & 8

Dewberry
& Davis, LLC

Contracts 9, 10 & 11

KCI Technologies, Inc.

Environmental Consultant



Project Description

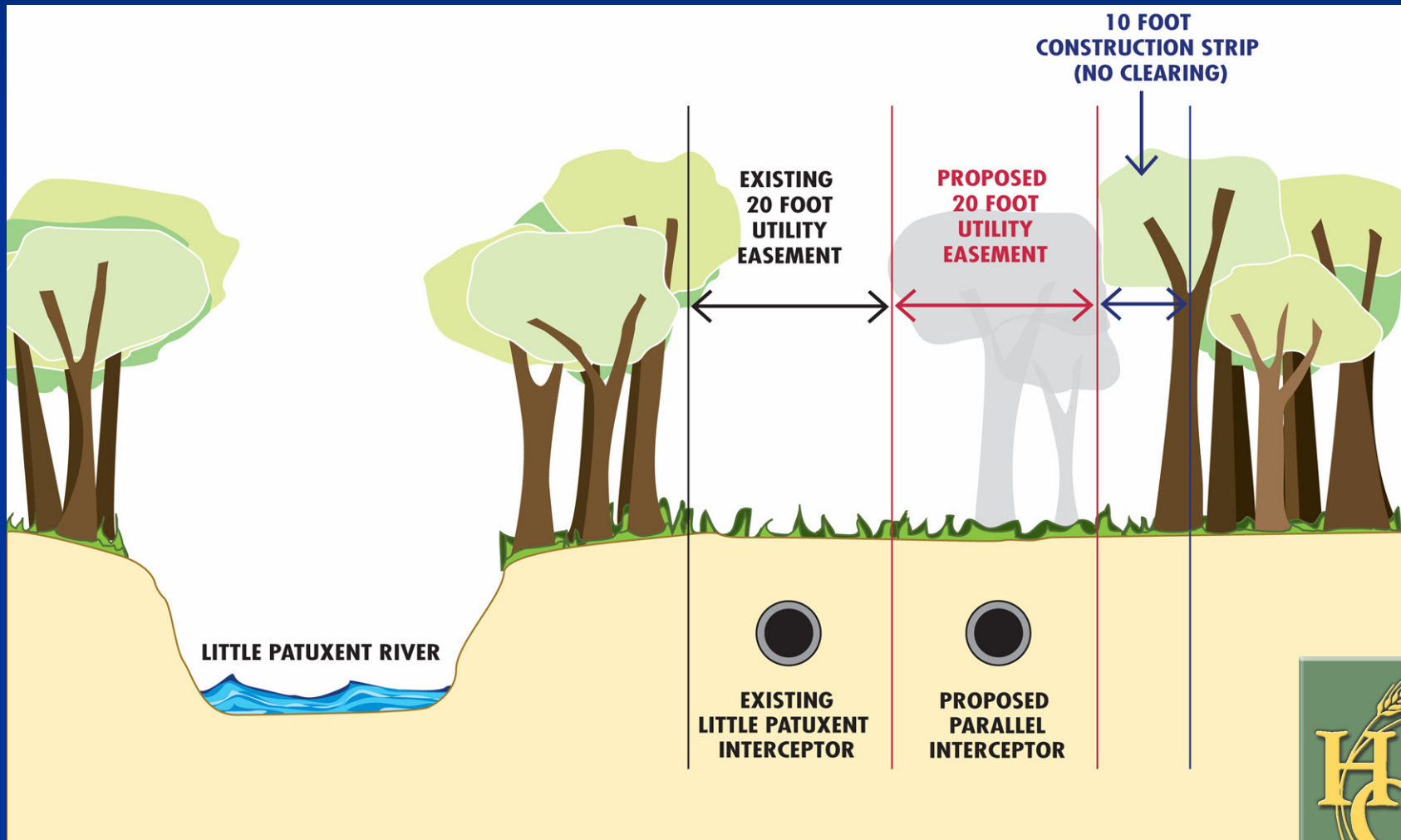
Parallel Sewer Construction

- HODPW currently maintains a 20-foot easement along the existing Little Patuxent Interceptor (shown)
- An additional 20-foot easement will be acquired
 - Plus 10-foot temporary construction strip
- A new 40-foot easement will be acquired where a parallel alignment is not feasible
 - Plus 10-foot temporary construction strip
- County Guidelines allow for:
 - Minimum 45-foot easement
 - Two (2) 10-foot temporary construction strips



Project Description

Parallel Sewer Construction General Cross Section



Project Sequencing & Methods of Construction

- Open-cut methods will be employed during construction
- Trenchless technologies will be utilized in areas where open-cut installations may not be viable
 - Technologies may include micro-tunneling, jack and bore and conventional tunneling.
 - Major road crossings, such as US Route 1 and US Route 29
 - Historical areas, such as Bollman Truss Bridge in the Savage Mill area
- Project will utilize the latest in pipe material advancements
 - Enhanced flow characteristics
 - Tighter seals at joints and manholes
 - Minimize infiltration



Project Sequencing & Methods of Construction

- Eleven (11) distinct construction contracts
 - Advertised on a rolling basis beginning in Spring 2008 (1 month apart)
 - Last contract awarded in Summer 2009
 - 18 to 24 months construction per contract
 - Maximizes contractor participation and minimizes overall construction period
- Several access points from the local road network
 - Average width of access points is 20 to 30 feet to accommodate equipment
 - Generally established in close proximity to the division between contracts
 - Designed to avoid impacts to natural resources in the area
 - Phased trail /pathway closures to accommodate construction (to be posted)



Project Sequencing & Methods of Construction

Project Summary and Progress to Date

- Detailed Engineering Design for Alternative II began in September 2006
 - Detailed Survey: Fall 2006
 - 30% Design Plans: Spring 2007
 - Detailed Geotechnical Investigation: Fall / Winter 2007
 - 90% Design Plans: Fall / Winter 2007
 - 100 % Design Plans / Bid Ready: Spring 2008



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Savage / Guilford
Kings Contrivance



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Owen Brown



Dewberry
& Davis, LLC

Contracts 9, 10 & 11

Oakland Mills
Town Center
Dorsey Search



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Questions & Answers

- General Question & Answer Session
- Break Out Sessions with Project Designers (Per Contract)
- Written Requests / Questions: Drop Off Box
- Information / Frequently Asked Questions (FAQs) to be posted to Howard County Department of Public Works Website

<http://www.howardcountymd.gov/DPW/>

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